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ABSTRACT

An earthquake is a shaking of the ground resulting from a disturbance in the earth's interior. Seismology is the (1) study of earthquakes; (2) origin, propagation, and energy of seismic phenomena; (3) prediction of these phenomena; and (4) investigation of the structure of the earth. Earthquake engineering or engineering seismology includes the study of the behavior of foundations and structures, materials used in their construction in response to earthquakes, and techniques that lessen the effects of earthquakes on structures. This publication lists relevant sources of information on earthquakes, seismology, and earthquake engineering. Listed in this bibliography are (1) introductory materials, (2) subject headings, (3) basic texts, (4) additional titles, (5) specialized titles, (6) handbooks, (7) bibliographies, (8) government publications, (9) conference proceedings, (10) abstracting and indexing services, (12) journals, (13) representative journal articles, (14) technical reports, (15) selected technical reports, (16) selected materials, and (17) additional sources of information. (CW)

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EARTHQUAKES AND EARTHQUAKE ENGINEERING

Compiled by John F. Buydos

TB 89-8 **October 1989**

SCOPE: This Tracer Bullet lists relevant sources of information on earthquakes, seismology, and earthquake engineering. An earthquake is a shaking of the ground resulting from a disturbance in the earth's interior. Seismology is the study of earthquakes and of the origin, propagation, and energy of seismic phenomena, the prediction of these phenomena, and the investigation of the structure of the earth's interior by measuring and analyzing natural or artificially generated seismic signals. Earthquake engineering or engineering seismology includes the study of the behavior of foundations and structures, and of the materials used in their construction in response to earthquakes, as well as techniques that would lessen the effect of earthquakes on such structures.

This guide supersedes TB 74-1 in providing a review of the literature in the Library of Congress on earthquakes, seismology, and earthquake engineering. Not intended as a comprehensive bibliography, this compilation is designed--as the name implies--to put the reader "on target."

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SUBJECT HEADINGS used by the Library of Congress, under which books on earthquakes can be located in most card, book, and online catalogs, include the following:

EARTHQUAKE ENGINEERING (Highly relevant)
EARTHQUAKE INTENSITY (Highly relevant)
EARTHQUAKE PREDICTION (Highly relevant)
EARTHQUAKES (Highly relevant)
Use subdivision EARTHQUAKE under names of cities, e.g., LISBON, (PORTUGAL)--EARTHQUAKE, 1755; NEW MADRID (MO.)--EARTHQUAKE, 1811; SAN FRANCISCO, (CALIF.)--EARTHQUAKE, 1906
Use subdivision EARTHQUAKE EFFECTS under various headings for types of structures subject to earthquake forces, e.g., ARCH DAMS--EARTHQUAKE EFFECTS; BRICK HOUSES--EARTHQUAKE EFFECTS; BRIDGES--EARTHQUAKE EFFECTS; BUILDINGS--EARTHQUAKE EFFECTS; BUILDINGS, REINFORCED CONCRETE--EARTHQUAKE EFFECTS; DAMS--EARTHQUAKE EFFECTS; EARTH DAMS--EARTHQUAKE EFFECTS; ELECTRIC POWER-PLANTS--EARTHQUAKE EFFECTS; ELECTRIC POWER SYSTEMS--EARTHQUAKE EFFECTS; HARBORS--EARTHQUAKE EFFECTS; HIGH-RISE APARTMENT BUILDINGS--EARTHQUAKE EFFECTS; HISTORIC SITES--EARTHQUAKE EFFECTS; NUCLEAR POWER PLANTS--EARTHQUAKE EFFECTS; PIPE LINES--EARTHQUAKE EFFECTS; PRESSURE VESSELS--EARTHQUAKE EFFECTS; TALL BUILDINGS--EARTHQUAKE EFFECTS; TANKS--EARTHQUAKE EFFECTS; TELEPHONE LINES--EARTHQUAKE EFFECTS; UNDERGROUND CONSTRUCTION--EARTHQUAKE EFFECTS; UNDERGROUND UTILITY LINES--EARTHQUAKE EFFECTS
EARTHQUAKE ENGINEERING LABORATORIES (Relevant)
EARTHQUAKE RESISTANT DESIGN (Relevant)
SEISMOLOGY (Relevant)
EARTHQUAKE SIMULATORS (Related)
EARTHQUAKE SOUNDS (Related)
EARTHQUAKES AND HYDRAULIC STRUCTURES (Related)
EARTHQUAKES AND RAILROADS (Related)
INSURANCE, EARTHQUAKE (Related)
SEISMOMETRY (Related)
SOIL LIQUEFACTION (Related)
TSUNAMIS (Related)
EARTH MOVEMENTS (More general)
GEOPHYSICAL PREDICTION (More general)
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NATURAL DISASTERS (More general)
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Aftershocks
Microseisms
Seismological Stations

Bibliography and Index of Geology (1933-) Z6031.G4*
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Seismometers and Seismometry

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Seismometry
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Note: Consult reference librarian for location of abstracting and indexing services in the Science Reading Room

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See: All headings beginning Earthquake(s)

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Earthquake Engineering Research Institute
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(Publications and audio-visual materials may be requested)

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